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## (54) SOFT COAT FILM

## (57)Abstract:

PURPOSE: To obtain the soft coat film excellent in scratch resistance, shock resistance and abrasion resistance by a method in which a film is coated with the urethane compound into which the diol having specified molecular weight in a skelton and the compound having a polymerizable unsaturated radical are introduced, and radiation beam is radiated on said film.

CONSTITUTION: A soft coat film has the resin layer in which urethane acrylate oligomer obtained by connecting diisocyanate to the diol having a hydroxy group on both terminals and 200W4000 of weight mean molecular weight and the acrylate compound having a radical polymerizable unsaturated group with a hydroxy group on its terminal, is cured by electron beam irradiation, and the film supporting said cured resin layer. In the soft coat film, urethane acrylate oligomer functions as a soft segment, and single-functional or multifunctional monomer functions as a hard segment or the soft segment. The surface protective layer obtained by curing resin composition by electron beam controls phase separation mechanism, and further controls scratch resistance, flexibility and bending property.

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